

1. Incident Name MV SELENDANG AYU	2. Operational Period to be covered by IAP (Date / Time) From: <u>12/28/2004-06:00</u> To <u>12/31/2004-06:00</u>	IAP COVER SHEET
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3. Approved by:

FOSC CDR T. Harrison *[Signature]* FOSC(rep) 12-27-04

SOSC MA B. Mattson *[Signature]* 12/27/04

RPIC H. Hille *[Signature]* 12/27/04

INCIDENT ACTION PLAN

The items checked below are included in this Incident Action Plan:

- ICS 202-OS (Response Objectives)

- ICS 203-OS (Organization List) - OR - ICS 207-OS (Organization Chart)

- ICS 204-OSs (Assignment Lists)
 One Copy each of any ICS 204-OS attachments:
 - Map
 - Weather forecast
 - Tides
 - Shoreline Cleanup Assessment Team Report for location
 - Previous day's progress, problems for location

- ICS 205-OS (Communications List)

- ICS 206-OS (Medical Plan)
- ICS 220-OS (Air Operations Summary)
- ICS 232-OS (Resources at Risk Summary)
- ICS 209-OS (Incident Status Summary)
- Oiled Wildlife Protocol
- Cultural Resource Policy/Crew Recovery Policy/
- Addendum to Site Safety Plan/ Egress & Evacuation Plan

4. Prepared by: Tim McKinna - Planning Section Chief	Date / Time <u>12/27/04 15:10</u>
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Electronic version: NOAA 1.0 June 1, 2000

1. Incident Name: MV SELENDANG AYU
 2. Operational Period (Date / Time): From: 12/28/2004-06:00 To 12/31/2004-06:00
 ORGANIZATION ASSIGNMENT LIST ICS 203-OS

3. Incident Commander and Staff
 Primary Deputy
 Federal: CDR T. Harrison
 State: Bob Mattson Walt Sandel
 RP (s): Howard Hile
 Safety Officer: Carl Pulliem/LCDR Drayton
 Information Officer: PA2 Francis
 Liaison Officer: CWO2 Boucher
 Legal Officer:

7. OPERATION SECTION Deputy
 Chief B. Tageson R Henry
 Branch/Division/Groups
 Salvage Group Supervisor Bill Milwee
 CWO Carlson
 Spill Cleanup Branch R. Henry
 Spill Cleanup Contractor Chadux
 Rescue/Salvage Bill Milwee
 LT Jerome
 Dispersant Group Heather Parker-Hall
 Near Shore Group R. Henry
 Off Shore Group R. Henry
 Shoreline Recovery R. Henry
 Protection Group R. Henry
 Vessel Support Group R. Henry

4. Agency Representatives
 Agency Name

5. PLANNING SECTION Deputy
 Chief Tim McKinna Frank Shelley
 Resources Unit: LTJG Martinez
 Situation Unit: Eric Marquette
 Environmental Unit: Ed Owens / W Gilpin
 Documentation Unit: MST3 Weiland
 Demobilization Unit: Brandon Henry
 Technical Specialists: Jewel Bennett
 SCAT: Ed Owens
 Scientific Support: Heather Parker-Hall
 Water Sampling Group: T. Robertson

6. LOGISTICS SECTION Logs Area Cmdr:
 Chief J. Wallis LT J. Jager
 a. Support Branch
 Director: Sean Andrews
 Supply Unit: Shelley Lawson
 Facilities Unit: Susan Pacillo
 Air Transportation Unit: Cathy Sterling
 Vessel Support Unit: Richard Wilson
 Ground Support Unit: Trish Deffendal
 Waste Management: Sean Andrews
 b. Service Branch
 Director: IT2 C. Black
 IT Unit:
 c. Anc. Log. Unit
 Waste Management:

WILDLIFE BRANCH
 Director: Barbara Callahan
 Recovery Ops Supervisor:
 Wildlife Rehab Group Super.:

8. FINANCE / ADMINISTRATION SECTION Deputy
 Chief D. Henry J. Butler
 Time Unit:
 Procurement Unit:
 Claims/Comp. Unit:
 Cost Unit:

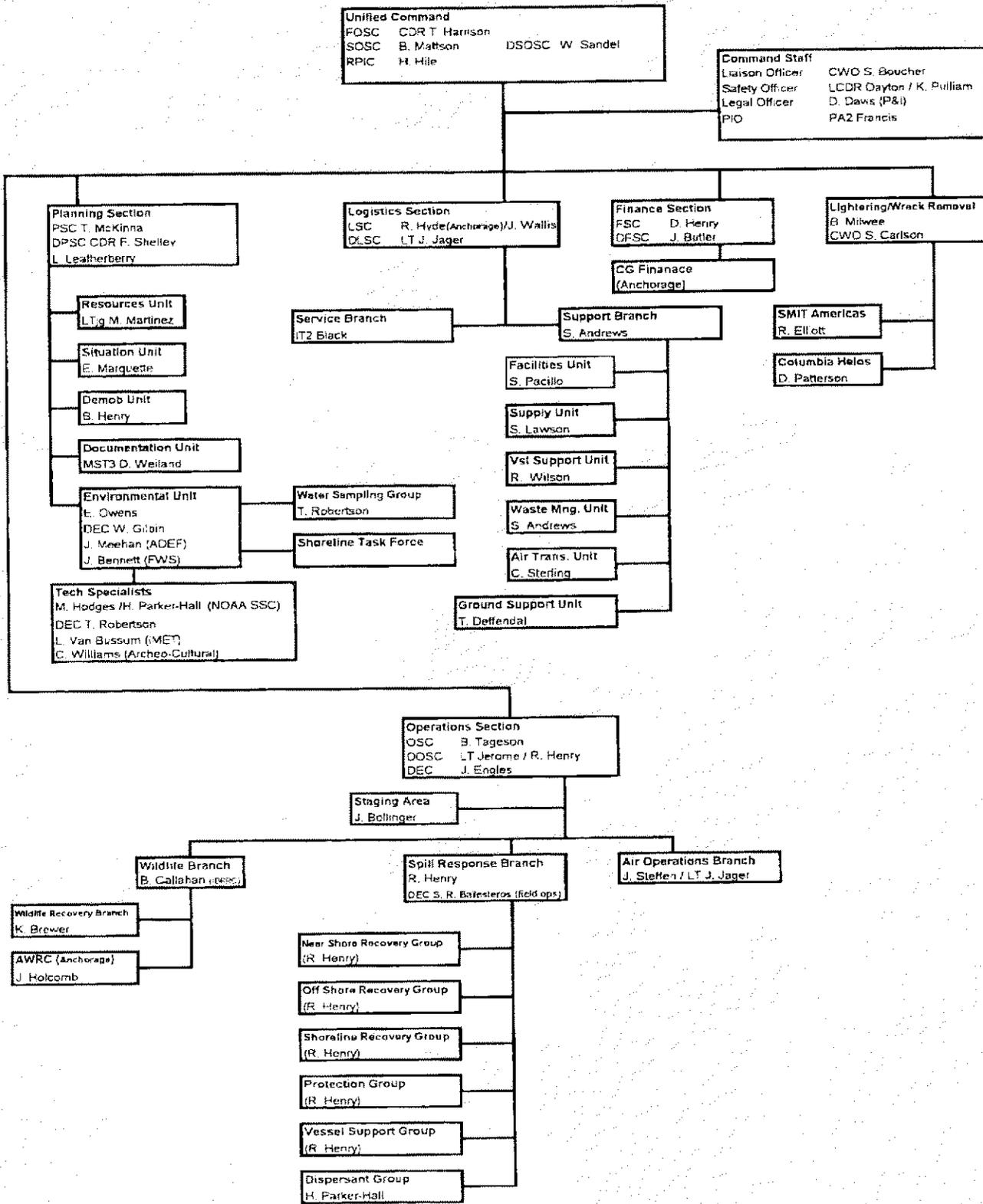
AIR OPERATIONS BRANCH
 Director: Jim Steffen/ LT Jager
 Air Tactical Supervisor:
 Air Support Supervisor:
 Helicopter Coordinator:
 Fixed Wing Coordinator:

9. Prepared By: (Resources Unit) LTJG Martinez
 Date / Time: 12/27/2004

Electronic version: NOAA 1-D June 1, 2000

Organization Chart
ICS - 207

27 December 2004



1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Environmental Unit			4. Division/Group Water Sampling Group		
5. Operations Personnel					
		Name	Affiliation	Contact # (s)	
Planning Section Chief:		T. McKinna	RP	359 - 9167	
Branch Director:		W. Gilpen	DEC	359 - 9430	
Division/Group Supervisor:		T. Robertson	NUKA Research	359 - 9429	
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	
FV ALASKA LADY	Capt. Ken	359 - 5030	4		
NUKA Rep	T. Robertson	359 - 9249	1		
Crab Pots (30)					
Sampling Net (1)					
7. Assignments					
<ol style="list-style-type: none"> 1. Proceed to sampling areas and set crab pots and oil snare to sample for tar balls and oil effected crabs. 2. Collect samples of any oil encountered according to approved protocols. 3. Note collector, date/time, location, depth of water, and occurrence of oil for each sample device. 4. Note collector, date/time, depth, number of crabs and occurrence of oil for each baited crap pot set. 5. Recover any animal carcasses according to the oiled bird protocol. 6. Upon discovery of LIVE oiled wildlife report location, type of animal, and degree of oiling to the M/V EXITO 7. Vessel will report to the Environmental Unit Section Leader at 0800, 1300, and 2000. 					
8. Special Instructions for Division / Group					
<ol style="list-style-type: none"> 1. Review small boat safety operations prior to conducting operations 2. The master of vessel will determine safe deployment conditions. 3. For medical emergencies notify Command Post immediately. EMTs located on M/V CAPE FLATTERY 4. All personnel will wear proper PPE: Mustang Suits required on small boats, Life Jackets required on platform decks. 5. Beach operations must be preapproved by the Safety Officer if not in normal work assignment. 6. There will be no shoreline operations during times when ice is visible on the adjacent upland zone. 					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function		Radio: Freq. / System / Channel		Cell Phone	Pager
Command Post				581 - 7156	
Safety Officer				359 - 8865	
M/V EXITO		HF 4125 KHz		866-773-2304	
Emergency Communications					
Medical		Evacuation		Other	
10. Prepared By (Resources Unit Leader)		Date / Time	11. Approved By (Planning Section Chief)		Date / Time
LTJg Martinez		12/27/04	T. McKinna		12/27/04
ASSIGNMENT LIST		June 2000		014 ICS 204-OS	

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Environmental Unit			4. Division/Group Shoreline Oiling Assessment Task Force		
5. Operations Personnel					
		Name	Affiliation	Contact # (s)	
Planning Section Chief:		T. McKinna	RP	359 - 9167	
Branch Director:		W. Gilpen	DEC	359 - 9430	
Division/Group Supervisor:		Ed Owens	RP		
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info #	# of Persons	Notes / Remarks	
Federal Representative			1		<input type="checkbox"/>
Alaska DEC Representative	John Engles		1		<input type="checkbox"/>
Responsible Party Representative			1		<input type="checkbox"/>
Trained Wildlife Observer			1		<input type="checkbox"/>
Air Asset				Coordinate with AirOps for daily flights. Check ICS 220	<input type="checkbox"/>
				for flight times and air craft.	<input type="checkbox"/>
7. Assignments					
<p>1. The specified locations and others as may be recommended by the team: Volcano Bay (VLC7), Makushin Village (MKS1 and MSK11), Humpback Bay (HMP11 and HMP12), Portage Bay (PTN3), Skan Bay (SKN5, 14, and 15), Spray Cape (SPR11 and SPR12), and South Skan (SKS 1B).</p> <p>2. Gather data at each site regarding fate and effects of spilled oil, and presence and status of sub surface oil.</p> <p>3. The trained wildlife representative will count oiled birds/animals and provide information to situation unit and to wildlife vessels. When possible bag dead oiled animals according to the oiled bird protocol and transport them on the helo.</p> <p>4. Each mission should be checked by the archeologist.</p> <p>5. Observations will be relayed back to the Situations Unit, Operations Section, and the Unified Command.</p>					
8. Special Instructions for Division / Group					
<p>1. All overflights are dependant on safe weather conditions</p> <p>2. Read flight operations prior to departure</p> <p>3. PPE must be worn by all personnel on overflights: Exposures suits must be worn on contractor air assets, Mustang suits must be worn on Coast Guard air assets.</p> <p>4. There will be no shoreline operations during times when ice is visible on the adjacent upland zone</p>					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function		Radio: Freq. / System / Channel		Cell Phone	Pager
Command Post				581 - 7156	
Safety Officer				359 - 8865	
MV EXITO		HF 4125 KHz		866-773-2304	
Emergency Communications					
Medical		Evacuation		Other	
10. Prepared By (Resources Unit Leader)		Date / Time		11. Approved By (Planning Section Chief)	
LTJg Martinez		12/27/04		T. McKinna	
				12/27/04	
ASSIGNMENT LIST			June 2000		014 ICS 204-OS

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Wildlife Branch			4. Division/Group Wildlife Recovery Group		
5. Operations Personnel					
Name		Affiliation		Contact # (s)	
Planning Section Chief: T. McKinna		RP		359 - 9167	
Branch Director: B. Callahan				359 - 9166	
Division/Group Supervisor: _____					
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	
M/V EXITO		877 - 654 - 6999	9	3 crew, 9 response	<input type="checkbox"/>
F/V NORSEMAN		359 - 9791	11	3 crew, 8 response	<input type="checkbox"/>
Wildlife Trailer (2)					<input type="checkbox"/>
Skiffs (5)					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
7. Assignments					
<ol style="list-style-type: none"> Survey all divisions for oiled wildlife. Upon the direction of the Wildlife Branch Director or Operations Section Chief relocate to an alternate location, and report upon arrival. Prioritize reports of oiled wildlife. Recover wildlife where identified. All vessels are to report into the Operations Section Chief at 0800, 1300, and 2000. 					
8. Special Instructions for Division / Group					
<ol style="list-style-type: none"> Review small boat safety operations prior to conducting operations The master of vessel will determine safe deployment conditions. For medical emergencies notify Command Post immediately. EMTs located on M/V CAPE FLATTERY All personnel will wear proper PPE: Mustang Suits required on small boats, Life Jackets required on platform decks. Beach operations must be preapproved by the Safety Officer. There will be no shoreline operations during times when ice is visible on the adjacent upland zone. 					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function		Radio: Freq. / System / Channel		Cell Phone	Pager
Command Post				581 - 7156	
Safety Officer				359 - 8865	
M/V EXITO		HF 4125 KHZ		866-773-2304	
Emergency Communications					
Medical	866 - 290 - 9238	Evacuation		Other	
10. Prepared By (Resources Unit Leader)			11. Approved By (Planning Section Chief)		Date / Time
LTJg Martinez			T. McKinna		12/27/04
Date / Time: 12/27/04					
ASSIGNMENT LIST			June 2000		014 ICS 204-OS

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Spill Response Branch			4. Division/Group Off Shore Recovery Group		
5. Operations Personnel					
		Name	Affiliation	Contact # (s)	
Planning Section Chief:		T. McKinna	RP	359 - 9167	
Branch Director:		R. Henry		359 - 9172	
Division/Group Supervisor: _____					
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	
Current Buster (NOFI)				** Upon Arrival	<input type="checkbox"/>
FV COMMITMENT	Roger Rowland	(907) 581 - 5881		** Upon Arrival	<input type="checkbox"/>
FV WESTERN VIKING	Jim Stone	(253) 588 - 2015	4	** Upon Arrival	<input type="checkbox"/>
FV RAVEN BAY	Dustin Dickerson	(907) 391 - 3437	2	** Upon Arrival	<input type="checkbox"/>
Skiffs (2)			4		<input type="checkbox"/>
Vicoma Star Skimmer (+backup)			2		<input type="checkbox"/>
Storage (10,000 gal) / Boom 600'					<input type="checkbox"/>
7. Assignments					
<ol style="list-style-type: none"> 1. Upon the direction of the Operations Section Chief, in the event of a secondary discharge from the MV SELENDANG AYU proceed to the designated divisions and begin oil recovery operations. 2. Recover any animal carcasses according to the oiled bird protocol. 3. Upon discovery of LIVE oiled wildlife report location, type of animal, and degree of oiling to the MV EXITO. 4. All vessels are to report into the Operations Section Chief at 0800, 1300, and 2000. 					
8. Special Instructions for Division / Group					
<ol style="list-style-type: none"> 1. Review small boat safety operations prior to conducting operations 2. The master of vessel will determine safe deployment conditions. 3. For medical emergencies notify Command Post immediately. EMTs located on MV CAPE FLATTERY 4. All personnel will wear proper PPE: Mustang Suits required on small boats, Life Jackets required on platform decks. 5. Beach operations must be preapproved by the Safety Officer if not in normal work assignment. 6. There will be no shoreline operations for beach clean up during times when ice is visible on the adjacent upland zone. 					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function	Radio: Freq / System / Channel	Cell Phone	Pager		
Command Post		581 - 7156			
Safety Officer		359 - 8865			
MV EXITO	HF 4125 KHz	866-773-2304			
Emergency Communications					
Medical	866 - 290 - 9238	Evacuation	Other		
10. Prepared By (Resources Unit Leader)		Date / Time	11. Approved By (Planning Section Chief)		Date / Time
LTJg Martinez		12/27/04	T. McKinna		12/27/04
ASSIGNMENT LIST		June 2000	014 ICS 204-OS		

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Spill Response Branch			4. Division/Group Near Shore Recovery Group		
5. Operations Personnel		Name		Affiliation	
Planning Section Chief:		T. McKinna		RP 359 - 9167	
Branch Director:		R. Henry		RP 359 - 9172	
Division/Group Supervisor: _____					
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier		Leader	Contact Info. #	# of Persons	Notes / Remarks
MV LABRADOR		Capt J. Lamar	866 - 650 - 2429	7	4 response, 3 crew <input type="checkbox"/>
VOSS					<input type="checkbox"/>
Boom, 600'					<input type="checkbox"/>
Portable Barge Set					<input type="checkbox"/>
MARCO (2)				4	<input type="checkbox"/>
Skiff (2)				4	<input type="checkbox"/>
FV SILENT LADY				5	berthing for 8 ** Upon Arrival <input type="checkbox"/>
7. Assignments					
<ol style="list-style-type: none"> Proceed to Makushin Bay. When recoverable oil is reported commence near shore recovery. Upon direction from the Operations Section Chief relocate to alternate location and report arrival to Operations Section Chief. The FV SILENT LADY will provide berthing for the NRC personnel operating the MARCO skimmers. Recover any animal carcasses according to the oiled bird protocol. Upon discovery of LIVE oiled wildlife report location, type of animal, and degree of oiling to the MV EXITO. All vessels are to report into the Operations Section Chief at 0800, 1300, and 2000. 					
8. Special Instructions for Division / Group					
<ol style="list-style-type: none"> Review small boat safety operations prior to conducting operations The master of vessel will determine safe deployment conditions. For medical emergencies notify Command Post immediately. EMTs located on MV CAPE FLATTERY All personnel will wear proper PPE: Mustang Suits required on small boats, Life Jackets required on platform decks. Beach operations must be preapproved by the Safety Officer if not in normal work assignment. There will be no shoreline operations for beach clean up during times when ice is visible on the adjacent upland zone. 					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function		Radio: Freq. / System / Channel		Cell Phone	Pager
Command Post				581 - 7156	
Safety Officer				359 - 8865	
MV EXITO		HF 4125 KHz		866-773-2304	
Emergency Communications					
Medical 866 - 290 - 9238		Evacuation _____		Other _____	
10. Prepared By (Resources Unit Leader)		Date / Time		11. Approved By (Planning Section Chief)	
LTjg Martinez		12/27/04		T. McKinna	
				12/27/04	
ASSIGNMENT LIST		June 2000		014 ICS 204-OS	

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Spill Response Branch			4. Division/Group Protection Group		
5. Operations Personnel					
Name		Affiliation		Contact # (s)	
Planning Section Chief: T. McKinna		RP		359 - 9167	
Branch Director: R. Henry				359 - 9172	
Division/Group Supervisor: _____					
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	
MV JOSHUA	Dan Magone	907 - 359 - 1400		4 crew/response personnel	<input type="checkbox"/>
Skiff (2)					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
7. Assignments					
<ol style="list-style-type: none"> Proceed to Division A1 and B to maintain previously deployed protection boom and recover ineffective/dislodged boom at the direction of the Operations Section Chief. Upon direction from the Operations Section Chief relocate to alternate location and report arrival to Operations Section Chief. Recover any animal carcasses according to the oiled bird protocol. Upon discovery of LIVE oiled wildlife report location, type of animal, and degree of oiling to the MV EXITO. All vessels are to report into the Operations Section Chief at 0800, 1300, and 2000. 					
8. Special Instructions for Division / Group					
<ol style="list-style-type: none"> Review small boat safety operations prior to conducting operations The master of vessel will determine safe deployment conditions. For medical emergencies notify Command Post immediately. EMTs located on M/V CAPE FLATTERY All personnel will wear proper PPE: Mustang Suits required on small boats, Life Jackets required on platform decks. Beach operations must be preapproved by the Safety Officer if not in normal work assignment. There will be no shoreline operations for beach clean up during times when ice is visible on the adjacent upland zone. 					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function		Radio: Freq. / System / Channel		Cell Phone	Pager
Command Post				581 - 7156	
Safety Officer				359 - 8865	
MV EXITO		HF 4125 KHz		866-773-2304	
Emergency Communications					
Medical	866 - 290 - 9238	Evacuation		Other	
10. Prepared By (Resources Unit Leader)			11. Approved By (Planning Section Chief)		Date / Time
LTJg Martinez			T. McKinna		12/27/04
12/27/04					
ASSIGNMENT LIST			June 2000		014 ICS 204-OS

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Spill Response Branch			4. Division/Group Protection Group		
5. Operations Personnel					
		Name	Affiliation	Contact # (s)	
Planning Section Chief:		T. McKinna	RP	359 - 9167	
Branch Director:		R. Henry	RP	359 - 9173	
Division/Group Supervisor: _____					
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	▼
Air Logistics H-212	Jake McLean - NRC	359 - 8913	4	boom from Cape Flattery	<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
7. Assignments					
<p>1. On 12/28/04, weather permitting, deploy boom across streams in Division C1 and C2 via helicopter. If weather conditions prevent deployment of boom by air asset coordinate with Operations Section Chief to deploy boom via waterborne asset.</p> <p>2. Use decon procedures in Air Ops hanger as necessary upon return from overflight</p>					
8. Special Instructions for Division / Group					
<p>1. All overflights are dependant on safe weather conditions</p> <p>2. Read flight operations prior to departure</p> <p>3. PPE must be worn by all personnel on overflights: Exposures suits must be worn on contractor air assets, Mustang suits must be worn on Coast Guard air assets.</p>					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function		Radio: Freq. / System / Channel		Cell Phone	Pager
Command Post				581 - 7156	
Safety Officer				359 - 8865	
				866-773-2304	
Emergency Communications					
Medical _____		Evacuation _____		Other _____	
10. Prepared By (Resources Unit Leader)		Date / Time		11. Approved By (Planning Section Chief)	
LTJg Martinez		12/27/04		T. McKinna	
				12/27/04	
ASSIGNMENT LIST		June 2000		014 ICS 204-OS	

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Spill Response Branch			4. Division/Group Dispersant Group		
5. Operations Personnel					
		Name	Affiliation	Contact # (s)	
Planning Section Chief:		T. McKinna	RP	359 - 9167	
Branch Director:		R. Henry	RP	359 - 9172	
Division/Group Supervisor:		H. Parker-Hall	NOAA	359 - 8862	
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	
Air Logisitics H-212					
Dispersant Application Bucket			1		
Corexit 9500 Dispersant				16 drums (55 gal)	
Strike Team Monitors			2		
Fluorometer					
7. Assignments					
<p>1. Dispersant Group work assignment will be effective upon arrival of dispersant resources.</p> <p>2. Upon the direction of the Operations Section Chief deploy Corexit 9500 Dispersant over discharged oil pursuant to the RRT approval conditions dated 12/23/04.</p> <p>3. Remain in a state of readiness until further notice.</p>					
8. Special Instructions for Division / Group					
<p>1. All overflights are dependant on safe weather conditions</p> <p>2. Read flight operations prior to departure</p> <p>3. PPE must be worn by all personnel on overflights. Exposures suits must be worn on contractor air assets, Mustang suits must be worn on Coast Guard air assets.</p>					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function		Radio: Freq. / System / Channel		Cell Phone	Pager
Command Post				581 - 7156	
Safety Officer				359 - 8865	
				866-773-2304	
Emergency Communications					
Medical		Evacuation		Other	
10. Prepared By (Resources Unit Leader)		Date / Time	11. Approved By (Planning Section Chief)		Date / Time
LTJg Martinez		12/27/04	T. McKinna		12/27/04
ASSIGNMENT LIST			June 2000	014 ICS 204-OS	

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Spill Response Branch			4. Division/Group Vessel Support Group		
5. Operations Personnel					
	Name	Affiliation	Contact # (s)		
	Planning Section Chief: T. McKinna	RP	359 - 9167		
	Branch Director: R. Henry		359 - 9172		
Division/Group Supervisor: _____					
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	
Barge Kashega	Dan Magone	359- 1400 / 581- 1400	2	** Upon Arrival	<input type="checkbox"/>
FV SILENT LADY	David	359 - 9796	10	4 crew, 6 berthing	<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
7. Assignments					
<ol style="list-style-type: none"> 1. Proceed to South Skan Bay and anchor the barge. 2. Remain in Skan Bay as a forward staging area; moorage of MARCO skimmers, landing site for helo, and interim storage for recovery vessels. 3. Upon direction from the Operations Section Chief provide moorage/storage to any vessels necessary. 4. Recover any animal carcasses according to the oiled bird protocol. 5. Upon discovery of LIVE oiled wildlife report location, type of animal, and degree of oiling to the MV EXITO. 6. The FV SILENT LADY will provide berthing for the barge and NRC personnel. 					
8. Special Instructions for Division / Group					
<ol style="list-style-type: none"> 1. Review small boat safety operations prior to conducting operations 2. The master of vessel will determine safe deployment conditions. 3. For medical emergencies notify Command Post immediately. EMTs located on MV CAPE FLATTERY 4. All personnel will wear proper PPE: Mustang Suits required on small boats, Life Jackets required on platform decks. 5. Beach operations must be preapproved by the Safety Officer if not in normal work assignment. 6. There will be no shoreline operations for beach clean up during times when ice is visible on the adjacent upland zone. 					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function	Radio: Freq. / System / Channel	Cell Phone	Pager		
Command Post	_____	581 - 7156	_____		
Safety Officer	_____	359 - 8865	_____		
MV EXITO	HF 4125 KHz	866-773-2304	_____		
Emergency Communications					
Medical	866 - 290 - 9238	Evacuation	_____	Other	_____
10. Prepared By (Resources Unit Leader)		11. Approved By (Planning Section Chief)			
LTJg Martinez		T. McKinna		Date / Time	
				12/27/04	
ASSIGNMENT LIST		June 2000		014 ICS 204-OS	

Electronic version: NOAA 1.0 June 1, 2000

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		ASSIGNMENT LIST ICS 204-OS	
3. Branch Spill Response Branch			4. Division/Group Vessel Support Group		
5. Operations Personnel					
Name		Affiliation		Contact # (s)	
Planning Section Chief: T. McKinna		RP		359 - 9167	
Branch Director: R. Henry				359 - 9172	
Division/Group Supervisor: _____					
6. Resources Assigned This Period "X" indicates 204a attachment with special instructions					
Strike Team / Task Force / Resource Identifier	Leader	Contact Info. #	# of Persons	Notes / Remarks	
M/V SIRENE	Monte	907 - 359 - 9791	4		<input type="checkbox"/>
1500 gal fresh water tank (2)					<input type="checkbox"/>
Fresh water transfer system					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
7. Assignments					
<ol style="list-style-type: none"> 1. Load all requested supplies dock side at Dutch Harbor (1600-1800/1900). 2. Coordinate and deliver supplies to identified Spill Response vessels. 3. Report to vessels with on scene weather conditions. 4. Recover any animal carcasses according to the oiled bird protocol. 5. Upon discovery of LIVE oiled wildlife report location, type of animal, and degree of oiling to the MV EXITO 6. All vessels are to report into the Operations Section Chief at 0800, 1300, and 2000. 7. Load all oily waste super sacks for return to Dutch Harbor for disposal in accordance with disposal plan. 					
8. Special Instructions for Division / Group					
<ol style="list-style-type: none"> 1. Review small boat safety operations prior to conducting operations 2. The master of vessel will determine safe deployment conditions. 3. For medical emergencies notify Command Post immediately. EMTs located on M/V CAPE FLATTERY 4. All personnel will wear proper PPE: Mustang Suits required on small boats, Life Jackets required on platform decks. 5. Beach operations must be preapproved by the Safety Officer if not in normal work assignment. 6. There will be no shoreline operations for beach clean up during times when ice is visible on the adjacent upland zone. 					
9. Communications (radio and / or phone contact numbers needed for this assignment)					
Name / Function	Radio: Freq. / System / Channel	Cell Phone	Pager		
Command Post		581 - 7156			
Safety Officer		359 - 8865			
MV EXITO	HF 4125 KHz	866-773-2304			
Emergency Communications					
Medical	866 - 290 - 9238	Evacuation		Other	
10. Prepared By (Resources Unit Leader)		Date / Time	11. Approved By (Planning Section Chief)		Date / Time
LTJg Martinez		12/27/04	T. McKinna		12/27/04
ASSIGNMENT LIST		June 2000	014 ICS 204-OS		

1. Incident Name MV SELENDANG AYU		2. Operational Period (Date / Time) From: 12/28/2004-06:00 To 12/31/2004-06:00		COMMUNICATIONS LIST ICS 205A-OS	
3. Basic Local Communications Information					
Assignment	Name	Method(s) of contact (radio frequency, phone, pager, cell #(s), etc.)			
	M/V Redeemer	Iridium 881631457870			
		HF 4125 KHz			
		Shore contact Dan Magone 9073591400			
	M/V SIRENE	Iridium Sat: 011-621- 458-694			
		HF 4125 KHz			
		Local Cell 9073599791			
	M/V Cape Flattery	Satphone 8662909238			
	M	HF 4125			
		Ops contact Keith Darby 9074404545			
		Local Cell 9073917101			
	Coast Guard Aircraft 6021	Emerg: UHF Freq 2430MHz, VHF Freq 121.5 MHz, 122.6 MHz			
		Ch 16, Ch 21			
	M/V Joshua	Ch 16 VHF - FM - Local Area			
	Aircraft Grumman Goose	Emerg: VHF Freq 121.5MHz			
		Local: VHF Freq 122.6MHz			
	Aircraft B105 N4944	Emerg: VHF Freq 121.5MHz cell 359-8915			
		Local: VHF Freq 122.6MHz			
	R44 N8354	Emerg: VHF Freq 121.5MHz			
		Local: VHF Freq 122.6MHz cell 359-4354			
	M/V Labrador	Satphone: 1-866-650-2429			
		cell: 359-9249			
		POC Cpt. Jim Lamar			
		Bob Hooyman - Strike Team Leader			
	M/V Exido	1-877-654-6999			
		cell: 359 - 8648			
	Aircraft AS350	Emerg: VHF Freq 121.5MHz			
		Local: VHF Freq 122.6MHz			
	M/V POLAR BEAR	cell: 391 - 2268			
	Vessel to Vessel	Ch 81 A 157.0750 MHz			
	Vessel to Air	Ch 83 A 157.1750 MHz			
4. Prepared by: (Communications Unit) LT J. Jager		Date / Time 12/27/2004			
COMMUNICATIONS LIST		June 2000		014 ICS 205a-OS	

1. Incident Name
SELENDANG AYU

2. Operational Period (Date / Time)
From: 12/28/04 0600 TO 12/29/04 0600

AIR OPERATIONS PLAN
ICS 220-OS

3. Distribution

Fixed-Wing Bases DUTCH HARBOR

Helibase DUTCH HARBOR

4. Personnel and Communications

Air Operations Director	<u>JIM STEFFEN</u>	Air / Air Frequency	<u>CH 21</u>	Air / Ground Frequency	
Air Tactical Supervisor	<u>LI MORRISSEY</u>		<u>CH 21</u>		
Air Support Supervisor					
Helicopter Coordinator					
Fixed-Wing Coordinator					

5. Remarks (Spec. Instructions, Safety Notes, Hazards, Priorities)
-All operations depend on weather and sea state
-Prior to operating within 10 NM of MV SELENDANG AYU make a traffic call to 122.6 to make on-scene aircraft aware of your flight
-Boom deployment operations dependent on arrival of A-Star

ANTICIPATE HELO DROP OF AIR COMS REPEATER ON 231 WEATHER DEPENDING

6. Location / Function	7. Assignment	8. Fixed-Wing		9. Helicopter		10. Time		11. Aircraft Assigned	12. Operating Base
		NO.	TYPE	NO.	TYPE	Available	Commence		
C1 AND C2	HELO DROP OF MATERIALS AND CREW FOR BOOMING CREEKS			1		X	1015	AIR LOG BH212-29	DH HELOPT
DH HELOPT	STANDBY FOR EXTRACTION OF BOOMING CREW			1		X	1015	EVERGRN BH212-353	DH HELOPT
KASHEGA BAY TO MAKUSIN BAY	SHORELINE SCAT, SITES TBD						1000	AIR LOG BL105-494	DH HELOPT
KASHEGA BAY TO MAKUSIN BAY	SHORELINE SURVEY	1				X	1030	PENAIR GRUMMAN GOOSE	DH AIRPT
WRECK SITE DUTCH HARBOR	DROP SALVORS ON WRECK STANDING BY FOR SAR			2		X X		CG H 6021 CG H6537	DH HELOPT
13. TOTALS		1		4					

14. Air Operation Support Equipment
SLINGING EQUIPMENT

15. Prepared by
JIM STEFFEN / AIR OPS

Date / Time
12/27/2004 16:15

AIR OPERATIONS PLAN
ICS 220-OS

1. Incident Name MV SELENDANG AYU		2. Period Covered by Report From: 12/28/04 To: 12/31/04		Time of Report 12/27/04 1600:00	INCIDENT STATUS SUMMARY ICS 209-OS																																																																																																						
3. Spill Status (Estimated, in bbls) [Ops & EUL/SSC]				8. Equipment Resources																																																																																																							
Source Status: Remaining Potential _____		Rate of Spillage (per hour) _____		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Description</th> <th>Ordered</th> <th>Available / Staged</th> <th>Assign.</th> <th>Out of Service</th> <th>Totals</th> </tr> </thead> <tbody> <tr><td>Spill Resp. Vsis.</td><td>0</td><td></td><td>5</td><td></td><td>5</td></tr> <tr><td>Fishing Vessels</td><td>3</td><td></td><td></td><td></td><td>3</td></tr> <tr><td>Tugs</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Barges</td><td></td><td></td><td>2</td><td></td><td>2</td></tr> <tr><td>Other Vessels</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WB</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Wildlife Boat</td><td></td><td>1</td><td>1</td><td></td><td>2</td></tr> <tr><td>Skimmers</td><td></td><td>2</td><td>2</td><td></td><td>4</td></tr> <tr><td>Dispersant (drums)</td><td>16</td><td></td><td></td><td></td><td>16</td></tr> <tr><td>Boom (ft)</td><td></td><td>9000</td><td>8200</td><td></td><td>17200</td></tr> <tr><td>Sbnt/Snr. Bm. (ft.)</td><td>unkwn.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Current Buster</td><td>1</td><td></td><td></td><td></td><td>1</td></tr> <tr><td>Vacuum Trucks</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Wildlife Trailer</td><td>1</td><td></td><td>1</td><td></td><td>2</td></tr> <tr><td>Helicopters</td><td>3</td><td>1</td><td>3</td><td></td><td>7</td></tr> <tr><td>Fixed Wing</td><td>0</td><td>1</td><td>0</td><td></td><td>1</td></tr> </tbody> </table>		Description	Ordered	Available / Staged	Assign.	Out of Service	Totals	Spill Resp. Vsis.	0		5		5	Fishing Vessels	3				3	Tugs						Barges			2		2	Other Vessels						WB						Wildlife Boat		1	1		2	Skimmers		2	2		4	Dispersant (drums)	16				16	Boom (ft)		9000	8200		17200	Sbnt/Snr. Bm. (ft.)	unkwn.					Current Buster	1				1	Vacuum Trucks						Wildlife Trailer	1		1		2	Helicopters	3	1	3		7	Fixed Wing	0	1	0		1
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Natural Dispersion																																																																																																											
Chemical Dispersion																																																																																																											
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5. Shoreline Impacts (Estimated, in miles) [PSC / EUL / SSC]																																																																																																											
Total Miles of Shoreline in Incident Area:																																																																																																											
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6. Wildlife Impacts Daily																																																																																																											
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9. Personnel Resources [RUL]																																																																																																											
Description	Management Personnel	Field Personnel	Total Personnel																																																																																																								
Federal	25	7	32																																																																																																								
State	7	0	7																																																																																																								
Local	0	0	0																																																																																																								
RP	9	3	12																																																																																																								
Contract Personnel	13	99	112																																																																																																								
Volunteers																																																																																																											
Total Response Personnel from all Organizations:			163																																																																																																								
10. Special Notes																																																																																																											
Wildlife Impacts: 22birds captured/rehab 40 birds DOA 1 otter DOA 624 oiled birds observed 10 oiled mammals observed																																																																																																											
11. Prepared by: (Situation Unit Leader)																																																																																																											

INCIDENT STATUS SUMMARY

June 2000

ICS 209-OS



US Fish and Wildlife Service
Environmental Unit
Selendang Ayu Incident Command Center
Dutch Harbor, Alaska

Dead, oiled wildlife handling protocol for non-USFWS personnel

(revised 12/22/04)

During oil spill response, all wildlife carcasses (even if decomposed or scavenged) must be collected to prevent secondary oiling of other wildlife.

BE SURE to observe the animal carefully to ensure that it is dead.

BE SURE to wear proper personal protective equipment (including gloves) to protect yourself from oil exposure.

1. Bird carcasses

When collecting dead birds, place each carcass in a plastic bag (one bird per bag), secure the bag tightly (with a knot or tape), and attach an identification tag that includes all of the following information:

- Date
- Time
- Location (segment or lat/long)
- Collector's name

Keep the bagged carcasses cool and transport to or notify the *M/V Exito*, *M/V Norseman*, or *M/V Tiglax* as soon as possible.

Equipment needed:

- Plastic bags
- Duct tape
- Identification tags

2. Marine mammal carcasses

If you encounter a dead sea otter or other marine mammal, notify the USFWS on the *M/V Exito*, *M/V Norseman*, or *M/V Tiglax* or at the Incident Command Center immediately!! Record the location and mark it if possible. Only collect the carcass if instructed by the USFWS.

CULTURAL RESOURCE POLICY

M/V Selendang Ayu Cleanup

The State of Alaska's policy regarding cultural resources (stated in the Alaska Historic Preservation Act) is:

"to preserve and protect the historic, prehistoric and archaeological resources of Alaska from loss, desecration and destruction so that the scientific, historic and cultural heritage embodied in these resources may pass undiminished to future generations."

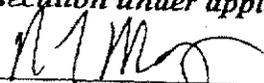
The Unified Command of this cleanup supports this policy and responders' compliance with state and federal laws protecting cultural resources. The oil spill response includes a program to ensure that cultural resource sites are properly identified and protected during cleanup operations. Response personnel play a key role in this program by being aware of their responsibilities under State and Federal law, and by dealing with sites properly if and when they are encountered. Whenever personnel encounter or discover an archaeological site or artifact, they are required to:

1. Leave cultural materials in place at the site of discovery, and mark their location.
2. Stop cleanup work in the vicinity surrounding the site.
3. Inform the FOSC's Historic Properties Specialist and the Shoreline Cleanup Assessment Team archaeologist immediately.

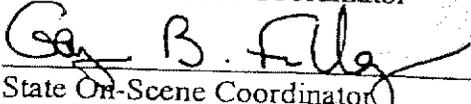
The Alaska Historic Preservation Act prohibits collecting or tampering with protected cultural resources, including artifacts, fossils, human skeletal remains, and other items of antiquity, and *violation of the act is a crime*. In addition, federal concern for cultural resources is expressed in a number of laws and regulations, violation of which may result in significant fines and imprisonment.

All oil spill response personnel (employees and their contractors) must comply with this Cultural Resource Policy:

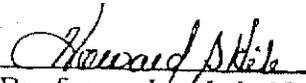
Anyone found vandalizing, moving, or taking away cultural materials may be subject to disciplinary actions up to and including immediate dismissal from their work, and an incident report may be filed with law enforcement authorities, requesting prosecution under applicable law.


Federal On-Scene Coordinator

12-11-04
date


State On-Scene Coordinator

11 December 2004
date


By, for, and on behalf of (Responsible Party)

11 DECEMBER 2004
date

ADDENDUM TO SITE SAFETY PLAN

Because of military activity during World War II, Unexploded Ordnance (UXO) can exist anywhere on Unalaska Island. Unexploded ordnance comes in nearly every shape size, from rifle cartridges to baseball-sized hand grenades to SCUBA tank-sized bombs.

If you find unexploded ordnance, follow these simple rules:

- First, don't touch it! Do not pick up, move, or disturb.
- Flag the area and notify your field supervisor immediately.]
- Discontinue Operations in the area of suspected UXO.

Report all findings to:

Karl Pulliam
Safety Officer
359 - 8865

FOSC Cultural Resource Specialist
359 - 8850

Alaska State Troopers
2315 Airport Road, Suite 106
Unalaska, AK 99692
(907) 581 - 1432

Department of the Army
176th Ordnance Detachment (EOD)
Fort Richardson, Alaska 99506 - 6078
(907) 384 - 7603

Emergency Egress and Evacuation Action Plans EEEAP!

1. Because of the unique geological and tectonic nature of the Aleutian Island chain it may be necessary for emergency egress from low lying areas. These areas include beachheads, near shore operations and the Operations Center at the Grand Aleutian Hotel.
2. The Grand Aleutian Hotel's existing evacuation plan is posted as an attachment for this document. The tsunami warning system will activate in the event of a tsunami and you will be expected to evacuate to high ground immediately. In the event of a sustained localized earthquake that shakes the ground for longer than 10 seconds, the alarm may not sound. The alarm is set off by the tsunami warning sensors that are out at sea and may not indicate that a tsunami is imminent in time to take proper precautions. **SEEK HIGHER GROUND!!** The local authorities recommend that the patrons of the Grand Aleutian Hotel find higher ground at the area behind the Marine Safety Detachment (MSD) on Bunker Hill or Standard Oil Hill. Fifty feet above sea level is recommended as a safe level to avoid high water for tsunamis of distant origin. For tsunamis that are generated locally 100 feet above sea level is required. It may be necessary to stay out for extended periods without shelter and food. Please keep a kit ready to go in the event that a quick exodus is required. The kit should have spare food, water, warm clothes, and flashlights with extra batteries. Please see attachment for further details.
3. For beach operations and near shore operations stay alert for signals from the mother vessels. A series of six (6) short horn blasts shall indicate that immediate return to the vessel or plane is required. This can indicate that any emergency condition exists and immediate return is required. Vessel masters and helo pilots shall brief small boat crews and landing parties on this procedure prior to departure. They shall also monitor conditions and radios that may indicate the need for a quick evacuation. Work crews shall not venture more than 200 yards up or down the beach from their respective platforms.
4. Airhorns shall be available on all helicopters and skiffs for warning system purposes.

Attachment to EEEAP:

Tsunami Safety Rules

During a tsunami emergency, your local police, fire, harbormaster and other emergency organizations will try to save your life. Give them your fullest cooperation.

Unless otherwise determined by competent scientists, potential danger areas are those less than 50 ft above sea level and within one mile of the coast for tsunamis of the distant origin; or less than 100 feet above sea level and within one mile of the coast for tsunamis of local origin.

Stay tuned to your radio or television stations during a tsunami emergency- bulletins issued through emergency agencies and NOAA offices can help save your life.

WARNING

When notified of pending tsunami activity, Public Safety Officers will proceed through neighborhoods emitting a series of wails on their vehicle sirens.

1. Officers will make some personal notification, if necessary and possible, to assure awareness.
2. They will NOT assist individuals in removing personal property or use his vehicle as a transporter.

EVACUATION

When informed of a pending tsunami threat:

1. Evacuate low lying areas immediately- preferably on foot.
2. Initial evacuation should be to the closest higher elevation. Suggested level is above 35 feet from sea level. Example: Standard Oil Hill, Above the Biorka Center.

Do not:

1. Delay evacuation for any reason.
2. Waste time attempting to save vehicles or other property.
3. Attempt to evacuate by vehicle if possible to do so by foot.
4. Use the telephone.

**Remember: Evacuation time may well be measured in minutes and seconds only.
ANY DELAY MAY COST YOUR LIFE!**

M/V SELENDANG SPILL, UNALASKA, ALASKA
1500 AST, Monday, December 27, 2004

NOTE: This is a site specific forecast from the National Weather Service generated specifically for this incident region.

Weather conditions at 1400 AST: Northwest winds 12 kt gusting to 20 kt, seas estimated at 6 feet, ceiling broken at 4500 ft ASL, 6+ miles visibility, isolated snow showers, temperature 37 deg F.

Sunset (12/27): 1751

Sunrise (12/28): 1025

Sunset (12/28): 1752

36 Hour Forecast

Winds:

Tonight... Variable wind 15 kt.

Tuesday... Southeast wind 15 kt increasing to southeast 20 kt in the afternoon.

Tuesday night... Southeast to South wind 20 kt with gusts to 30 kt after 9 pm.

Waves (combined seas at wreck site):

Tonight... Seas subsiding to 4 ft.

Tuesday... Seas subsiding to 2-4 ft.

Tuesday night... Seas 5 ft.

Precipitation:

Tonight... Partly cloudy. Patchy fog ending by daybreak Tuesday.

Tuesday... Partly cloudy. Patchy early morning fog.

Tuesday night... Increasing high clouds.

Ceiling/Visibility:

Tonight... Sct - Bkn 3500 ft ASL. Visibility 6+ miles.

Tuesday... Scattered 4000 ft ASL. Visibility 6+ miles.

Tuesday night... Clear below 10,000 ft ASL. Visibility 6+ miles.

Temperatures:

Tonight... low near 33 deg F.

Tuesday... high near 37 deg F. Wind chill temperatures 27 deg F.

Tuesday night... low near 34 deg F.

Extended Forecast:

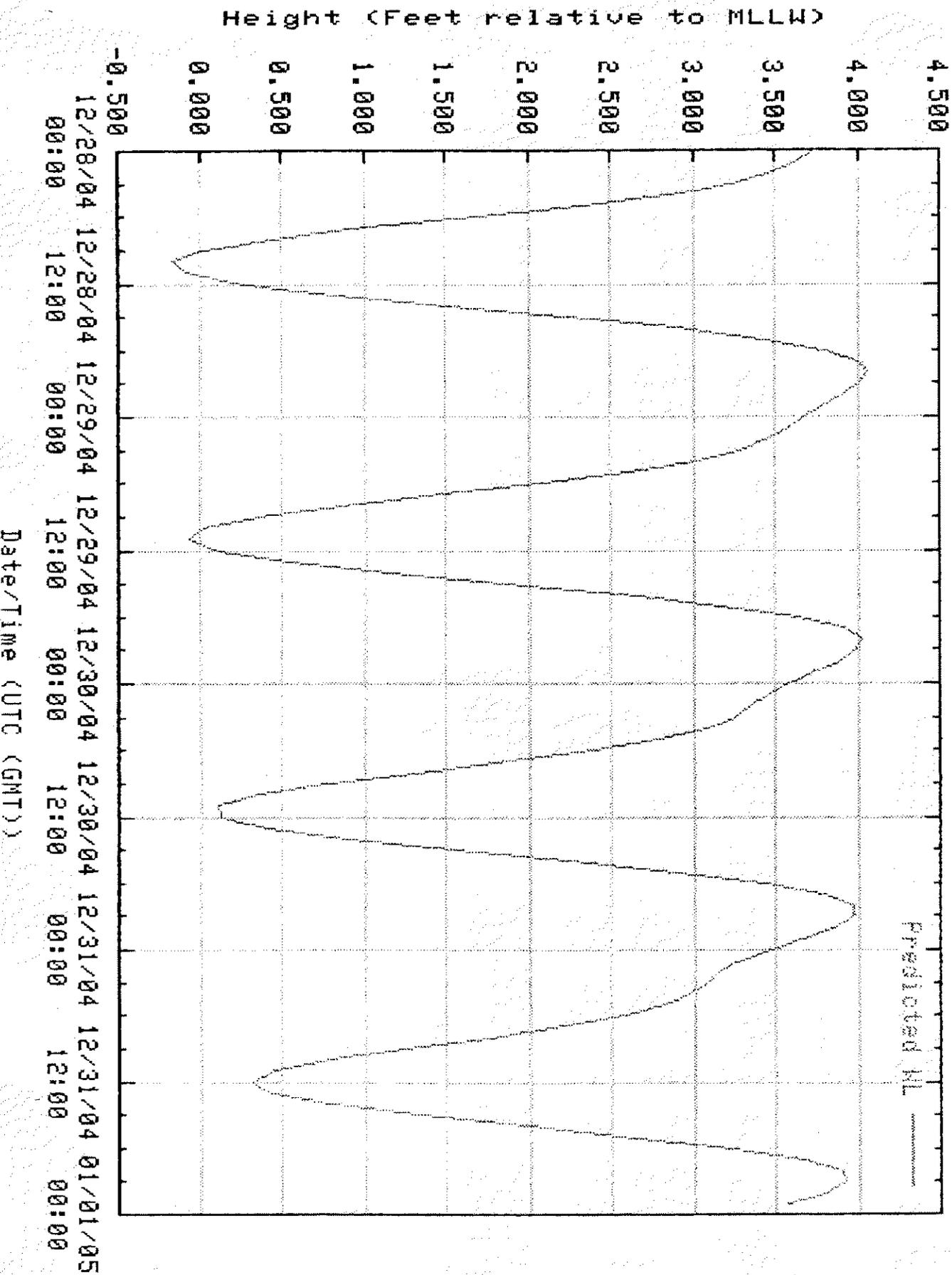
Wednesday... SE wind 25 kt gusts 35 kt increasing to gales 35 kt gusts 45 kt Wednesday afternoon..40 kt gusts 50 kt overnight. Seas building to 5 - 7 ft in the afternoon. Ceilings lowering in the afternoon and rain developing in the evening.

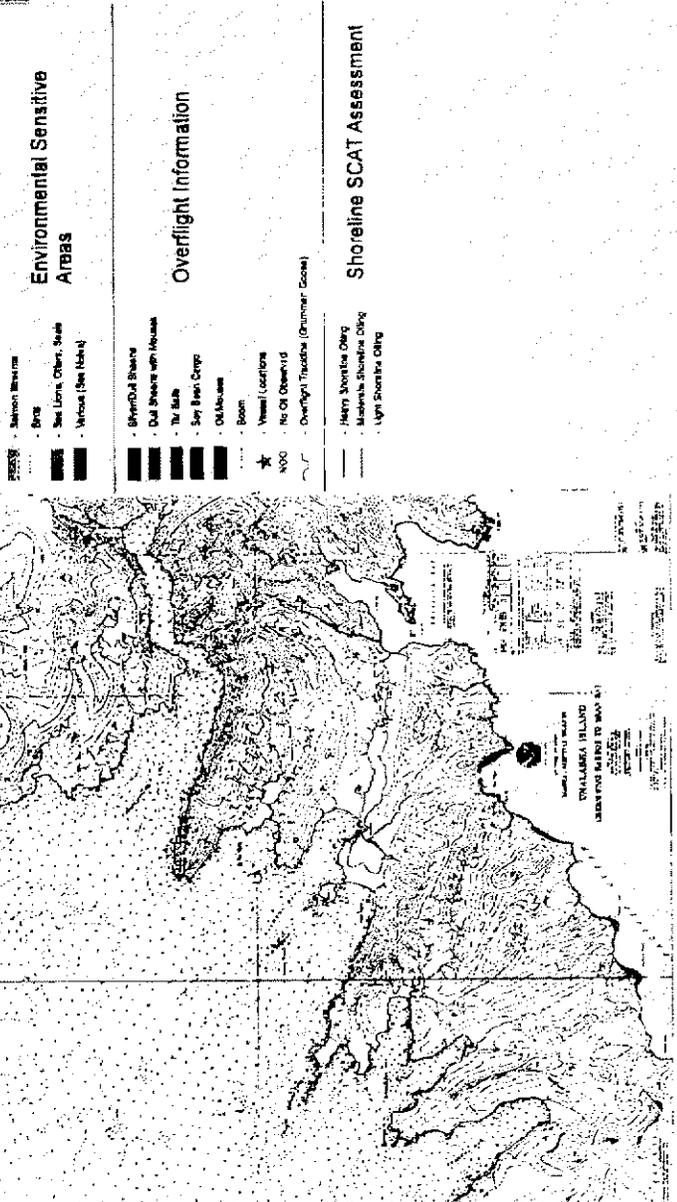
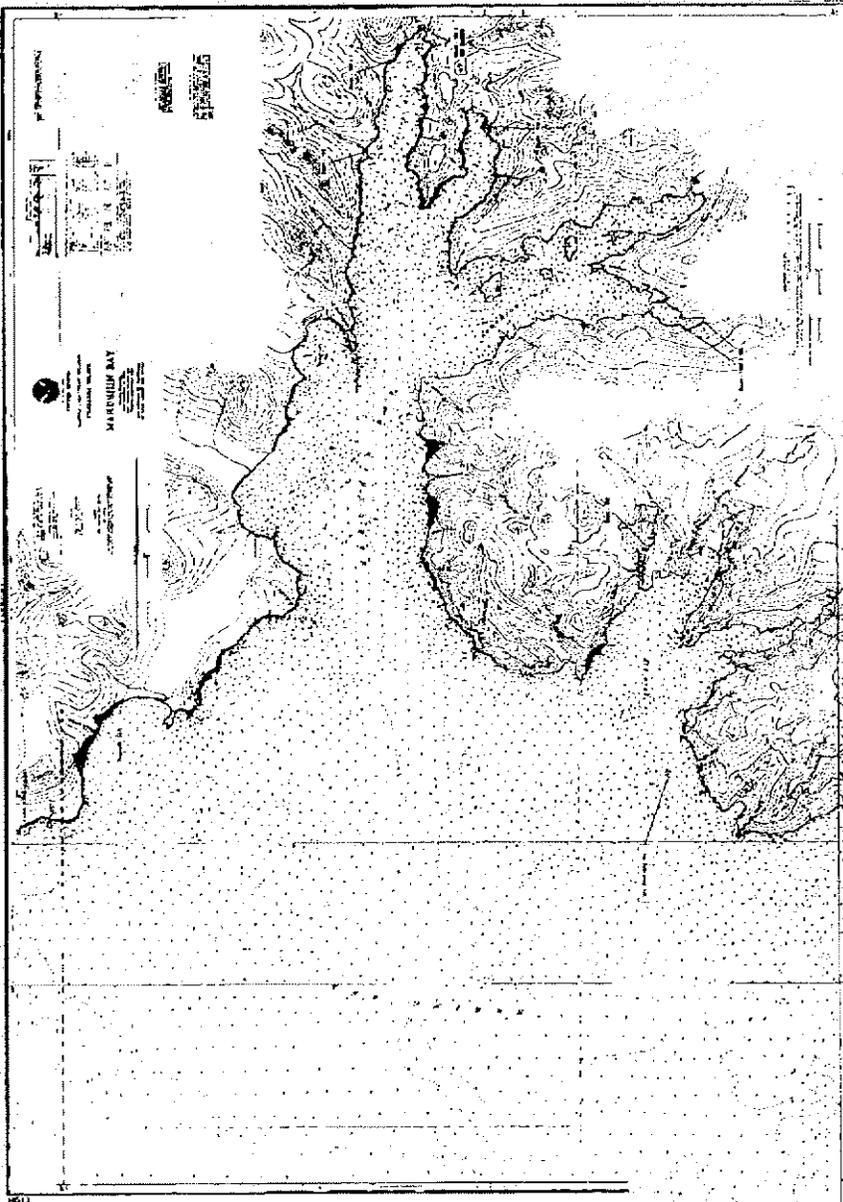
Thursday... S gales 35 kt gusts 45 kt in the morning diminishing to south 20 kt gusts 35 kt after 10 am and diminishing to south 15 kt in the afternoon. Seas 5 ft. Rain changing to showers in the afternoon. Low ceilings.

Friday... South to southwest wind 20 kt. Seas 4 - 5 ft. Mostly cloudy.

Currently looks like rain with gale winds out of the southeast to southwest through the weekend.

NOAA/NOS/CO-OPS
 Hourly Predicted Water Level Data (PR) Plot
 9462620 UNALASKA, DUTCH HARBOR, AK
 from 12/28/2004 - 12/31/2004





Environmental Sensitive Areas

- Salmon Stream
- Birds
- Sea Lions, Otters, Seals
- Wetlands (See Notes)

- Overflight Shadow
- Old Shores with Mounds
- The Falls
- Sea Bean Crops
- Old Houses
- Boats
- Visual Locations
- No Of Observers
- Overflight Trajectory (Summer Coasts)

Overflight Information

- Heavy Shadow Cast
- Moderate Shadow Cast
- Light Shadow Cast

Shoreline SCAT Assessment

- Heavy Shadow Cast
- Moderate Shadow Cast
- Light Shadow Cast

MAP 41
WALLASEA ISLAND
WESTERN PORTION TO MAP 41
DATE: 1998
SCALE: 1:50,000

MAP 41
WALLASEA ISLAND
EASTERN PORTION TO MAP 41
DATE: 1998
SCALE: 1:50,000